

Title (en)

METAL FRAME OF HEAD MOUNT DEVICE HAVING IMPACT ABSORBING WALLS

Title (de)

METALLRAHMEN EINER KOPFMONTIERTEN VORRICHTUNG MIT STOSSABSORBIERENDEN WÄNDEN

Title (fr)

CADRE MÉTALLIQUE DE DISPOSITIF MONTÉ SUR LA TÊTE PRÉSENTANT DES PAROIS D'ABSORPTION D'IMPACT

Publication

EP 3410174 A1 20181205 (EN)

Application

EP 17204684 A 20171130

Priority

- US 201715610438 A 20170531
- US 2017052461 W 20170920

Abstract (en)

Embodiments relate to a metal frame in a head-mounted display (HMD) that is structured to absorb impact and protect components of the HMD. The metal frame has a wall that is spaced away from a protection shell securing a display panel in the HMD. When the HMD is dropped or subject to external force, the wall may deform but keep the protection shell intact. Moreover, the metal frame has protruding ridges and brackets that surround outward facing cameras on the HMD. If the HMD is dropped, the protruding ridges and brackets can provide protection to the cameras.

IPC 8 full level

G02B 27/01 (2006.01)

CPC (source: EP)

G02B 27/0176 (2013.01)

Citation (search report)

- [Y] CN 106019602 A 20161012 - SHENZHEN KUKU TECH CO LTD
- [Y] WO 2016182974 A1 20161117 - NGOGGLE [US]
- [A] US 2017102546 A1 20170413 - TEMPEL MARK ALAN [US], et al
- [A] US 2015253574 A1 20150910 - THURBER DANIEL [US]
- [A] US 2017102549 A1 20170413 - LEE MINJONG [KR], et al
- [Y] CN 106646871 A 20170510 - SHENZHEN NADE OPTICAL CO LTD

Cited by

CN110967839A; CN111857328A; JP2021158662A

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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